BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : CONSTRUCTION OF CC ROADS AND DRAINS BALANCE CROSS ROADS OF ATTUR VILLAGE IN WARD NO.03

								Estimate Cost Rs.	50.00	Lakhs
Sl. no.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
	Desilting for Drain	Cum							
	from Veerabadreshwara temple		1	60.00	0.60	0.60	21.60		
							21.60	86.92	**1877.47**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							
2	KSRB 2-2.1 : **Earth work excavation** for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
		Cum							
	Cross Road		1	45.00	1.00	1.00	45.00		
			1	35.00	1.00	1.00	35.00		
	for Culvert		1	6.00	1.65	1.30	12.87		
	Cross Road Attur layout		1	50.00	0.75	0.90	33.75		
							126.62	200.34	**25367.05**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	200.34							
3	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
	for Road	Cum							
	Opp to Verabadreshwar temple		1	8.00	8.10	0.30	19.44		
			1	9.00	7.70	0.30	20.79		
	from Veerabadreshwara temple		1	50.00	3.00	0.45	67.50		
	Passage from post office Road		1	50.00	2.50	0.30	37.50		
	Cross Road Attur Layout		1	50.00	2.60	0.45	58.50		
			1	150.00	5.00	0.45	337.50		
	Cross Road		1	100.00	4.00	0.45	180.00		
							721.23	166.42	**120027.10**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Total	**166.42**							
4	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
			Qty Vide Item No.1+2+3				**869.45**	100.00	**86945.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							
	Add loading and unloading Item No 17.1)	68.00							
	Total	**100.00**							
5	KSRB 5-11 : Providing and constructing load bearing wall with cement concrete cavities blocks (hollow blocks) of proportion 1:1.5:3 blocks of size **40x20x20cms.(lxbxh) strength not less than 3.5 Newton per sqmm** with cement mortar 1:4 conforming to I.S.2185 of 1967 having not less than 40mm shell thickness with two or more large cavities and having solid material between including cost of materials, labour charges, scaffoldings, curing complete as per specifications. KBS No.5.4 (P.24 / I.N 5.25)								
	for Drain	Sqm							
	from Veerabadreshwara temple		2	50.00		0.40	40.00		
							40.00	974.14	**38966.00**
	Basic Rate	919.00							
	Area Weightage @ 6%	55.14							
	Total	**974.14**							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)							-	
		Sqm Cum							
	for Culvert		2	6.00	0.45	0.80	4.32		
							4.32	4438.22	**19173.00**
	Basic Rate	4187.00							
	Area Weightage @ 6%	251.22							
	Total	**4438.22**							
8	KSRB 15.1.1: Providing **flush pointing** to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.(Page No.113/Item No. 15.1)								
		Sqm							
	for f/c		2	50.00		0.40	40.00		
	for Culvert		2	6.00		0.80	9.60		
							49.60	102.82	**5100.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	**102.82**							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
9	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix M16 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2.(P No. 13 / Item No.4.7)								
		Cum							
	for Drain coping		2	50.00	0.20	0.10	2.00		
	for Culvert coping		2	6.00	0.45	0.10	0.54		
	for Culvert Vent Concrete		1	6.00	0.60	0.10	0.36		
							2.90	5598.92	**16237.00**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
10	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
		Cum							
	from Veerabadreshwara temple		1	35.00	2.50	0.15	13.13		
	Cross Road Attur		1	50.00	2.60	0.15	19.50		
			1	150.00	5.00	0.15	112.50		
							145.13	1665.26	**241670.86**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
11	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)							-	
		Cum							
	Cross Road		1	45.00	1.00	0.15	6.75		
			1	35.00	1.00	0.15	5.25		
	for Culvert		1	6.00	1.65	0.15	1.49		
	Cross Road Attur Layout		1	50.00	0.75	0.15	5.63		
	Opp to Verabadreshwar temple		1	8.00	8.10	0.15	9.72		
			1	9.00	7.70	0.15	10.40		
	from Veerabadreshwara temple		1	50.00	3.00	0.15	22.50		
	Passage from post office Road		1	50.00	2.50	0.15	18.75		
	Cross Road Attur Layout		1	50.00	2.60	0.15	19.50		
			1	150.00	5.00	0.15	112.50		
	Cross Road		1	100.00	4.00	0.15	60.00		
							272.48	5159.02	**1405703.97**
	Basic Rate	4867.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
12	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne	No.of Bars	Width/Length	Rmtr	Kg/Rmtr	Total in Kg		
	12mm dia main bar spacing at 150mm c/c	1	300	2.10	630.00	0.888	559.44		
	10mm dia dist bar spacing at 150mm c/c	1	13	45.00	585.00	0.617	360.95		
	12mm dia main bar spacing at 150mm c/c	1	233	2.10	490.00	0.888	435.12		
	10mm dia dist bar spacing at 150mm c/c	1	14	35.00	490.00	0.617	302.33		
	12mm dia main bar spacing at 150mm c/c	1	333	1.80	600.00	0.888	532.80		
	10mm dia dist bar spacing at 150mm c/c	1	12	50.00	600.00	0.617	370.20		
						in Kg	2560.84		
						in Qtl	25.6084		
						in tonne	**2.5608**	64243.42	**164516.80**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
13	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
		Sqm							
	Cross Road		2x2	45.00		0.60	108.00		
			2x2	35.00		0.60	84.00		
			2x2	50.00		0.60	120.00	-	
							312.00	310.58	**96900.96**
	Basic Rate	293.00							
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
14	Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 crns thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)								
		Cum							
	bed		1	45.00	1.00	0.15	6.75		
			1	35.00	1.00	0.15	5.25		
			1	50.00	1.00	0.15	7.50		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	ide wall		2	45.00	0.15	0.60	8.10		
			2	35.00	0.15	0.60	6.30		
			2	50.00	0.15	0.60	9.00		
							42.90	6371.66	**273344.21**
	Basic Rate	6011.00							
	Area Weightage @ 6%	360.66							
	Total	**6371.66**							
15	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20** mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
		Sqm							
	from Veerabadreshwara temple		1	50.00	0.90		45.00		
	Cross Road		1	35.00	0.90		31.50		
			1	45.00	0.90		40.50		
	Cross Road Attur Layout		1	50.00	0.90		45.00		
			325	0.90	0.60		175.50		
							337.50	2100.00	**708750.00**
	Data Rate	**2100.00**							
16	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
	for road	Cum							
	Opp to Verabadreshwar temple		1	8.00	8.10	0.15	9.72		
			1	9.00	7.70	0.15	10.40		
	from Veerabadreshwara temple		1	50.00	3.00	0.15	22.50		
	Passage from post office Road		1	50.00	2.50	0.15	18.75	-	
	Cross Road Attur Laout		1	50.00	2.60	0.15	19.50		
			1	150.00	5.00	0.15	112.50		
	Cross Road		1	100.00	4.00	0.15	60.00		
							253.37	6231.74	**1578904.81**
	Basic Rate	5879.00							
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
17	Vaccum **De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	for road	Sqm							
	Opp to Verabadreshwar temple		1	8.00	8.10		64.80		
			1	9.00	7.70		69.30		
	from Veerabadreshwara temple		1	50.00	3.00		150.00		
	Passage from post office Road		1	50.00	2.50		125.00		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			1	150.00	5.00		750.00		
	Cross Road		1	100.00	4.00		400.00		
							1559.10	95.40	**148738.14**
	Basic Rate	90.00							
	Area Weightage @ 6%	5.40							
	Total	**95.40**							
18	Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc.,including cost of conveyance of all materials, labour,lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/ I.22.8)								
	for road	m							
			10	4.00			40.00		
			25	5.00			125.00		
			10	4.00			40.00		
							205.00	121.90	**24989.50**
	Basic Rate	115.00							
	Area Weightage @ 6%	6.90							
	Total	**121.90**							
19	Providing and fixing **RCC precast Slabs of 0.20 m thick of CC 1:2:4 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	for culverts	Sqm							
	covering slab		1	6.00	1.50		9.00		
							9.00	4402.79	**39625.00**
	Data Rate	**4402.79**							
23	Miscellaneous and unforeseen charges								**3163.00**
							Grand Total Amount		**5000000.00**
	(Rupees Fifty Lakhs Only)								

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.03

Assistant Executive Engineer
Yelahanka New Town Sub Division
B.B.M.P.

Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Executive Engineer
Yelahanka Division
B.B.M.P.

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Administrative Approval

Accorded For Rs.50.00 Lakhs
Head of A/C P-1878
CER NO : 60/17-18 Dt: 8-11-17

E.E. (Project)

Technical Sanction

Accorded For 50.00 lakh Rs.
Head of A/C P1878
CER NO : 362 Dt: 10/11/17

TA

CE (YNK)